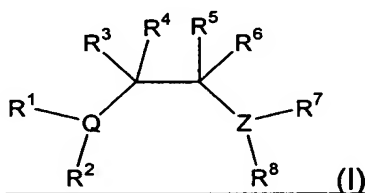


## AMENDMENTS

### In The Claims

1-10. (Canceled)

11. (Currently amended) A process for the polymerization of olefins, comprising the step of contacting, under polymerizing conditions, one or more polymerizable olefins with an active polymerization catalyst comprising a transition metal complex as set forth above in Claim 1; a group 3 through 11 (IUPAC) transition metal or lanthanide metal complex of a ligand of the formula (I)



wherein:

Z is nitrogen and Q is phosphorus, or Z is oxygen and Q is phosphorus, or Z is oxygen and Q is nitrogen;

provided that:

when Q is phosphorous and Z is nitrogen: R<sup>1</sup> and R<sup>2</sup> are each independently hydrocarbyl, silyl, or substituted hydrocarbyl having an E<sub>s</sub> of about -0.90 or less; R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup>, and R<sup>6</sup> are each independently hydrogen, hydrocarbyl, a functional group, or substituted hydrocarbyl; R<sup>7</sup> is hydrogen, hydrocarbyl, substituted hydrocarbyl or silyl; and R<sup>8</sup> is hydrocarbyl, substituted hydrocarbyl, or silyl; provided that any two of R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup>, R<sup>6</sup>, R<sup>7</sup> and R<sup>8</sup> vicinal or geminal to one another together may form a ring;

when Q is phosphorous and Z is oxygen:

R<sup>1</sup> and R<sup>2</sup> are each independently hydrocarbyl, silyl, or substituted hydrocarbyl having an E<sub>s</sub> of about -0.90 or less; R<sup>3</sup> and R<sup>4</sup> are each independently hydrogen, hydrocarbyl, a functional group, or substituted hydrocarbyl; R<sup>5</sup> and R<sup>7</sup> taken together form a double bond; R<sup>8</sup> is not present; and R<sup>6</sup> is -OR<sup>9</sup>, -NR<sup>10</sup>R<sup>11</sup>, hydrocarbyl or substituted hydrocarbyl, wherein R<sup>9</sup> is hydrocarbyl or substituted hydrocarbyl, and R<sup>10</sup> and R<sup>11</sup> are each independently hydrogen, hydrocarbyl or substituted hydrocarbyl; and provided that any two of R<sup>3</sup>, R<sup>4</sup>, and R<sup>6</sup> vicinal or geminal to one another may form a ring; or

R<sup>1</sup> and R<sup>2</sup> are each independently hydrocarbyl, silyl, or substituted hydrocarbyl having an E<sub>s</sub> of about -0.90 or less; R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup> and R<sup>6</sup> are each independently

hydrogen, hydrocarbyl, a functional group, or substituted hydrocarbyl; R<sup>7</sup> is hydrocarbyl, silyl, or substituted hydrocarbyl; and R<sup>8</sup> is not present; and provided that any two of R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup>, R<sup>6</sup>, and R<sup>7</sup> vicinal or geminal to one another may form a ring;

when Q is nitrogen: R<sup>1</sup> is hydrocarbyl, silyl, or substituted hydrocarbyl having an E<sub>s</sub> of about -0.90 or less; R<sup>2</sup> and R<sup>3</sup> are each independently hydrogen, hydrocarbyl, a functional group, or substituted hydrocarbyl, or taken together form a double bond; R<sup>4</sup> is hydrogen, hydrocarbyl, a functional group, or substituted hydrocarbyl; Z is oxygen; R<sup>6</sup> and R<sup>7</sup> taken together form a double bond; R<sup>8</sup> is not present; R<sup>5</sup> is -OR<sup>12</sup>, -R<sup>13</sup> or -NR<sup>14</sup>R<sup>15</sup>, wherein R<sup>12</sup> and R<sup>13</sup> are each independently hydrocarbyl or substituted hydrocarbyl, and R<sup>14</sup> and R<sup>15</sup> are each hydrogen, hydrocarbyl or substituted hydrocarbyl; provided that when R<sup>2</sup> and R<sup>3</sup> taken together form an aromatic ring, R<sup>1</sup> and R<sup>4</sup> are not present; and further provided that any two of R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup> and R<sup>5</sup> vicinal or geminal to one another taken together may form a ring.

12. (Original) The process of Claim 11, wherein said one or more polymerizable olefins are compounds of the formula  $H_2C=CH(CH_2)_nG$  (VIII), wherein n is 0 or an integer of 1 or more, g is hydrogen or  $-CO_2R^{25}$ , and R<sup>25</sup> is hydrogen, hydrocarbyl or substituted hydrocarbyl.

13. (Original) The process of Claim 12, wherein said one or more polymerizable olefins comprises ethylene.

14. (Original) The process of Claim 13, wherein said one or more polymerizable olefins comprises ethylene and at least one other polymerizable olefin.

15. (Original) A process for the manufacture of a polar copolymer by contacting, under polymerizing conditions, a hydrocarbon olefin, a polar olefin, and a polymerization catalyst comprising a nickel complex of a bidentate ligand which is an active ligand.

16. (Original) The process of Claim 15, provided that when CO is present, at least one other polar olefin is also present.